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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/887,066	06/25/2001	Duriez Gilbert	612.40180X00	1768
20457 7	7590 02/23/2005		EXAMINER	
	I, TERRY, STOUT &	SIEFKE, SAMUEL P		
1300 NORTH SEVENTEENTH STREET SUITE 1800			ART UNIT	PAPER NUMBER
= =	, VA 22209-9889		1743	

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/887,066	GILBERT ET AL				
	Office Action Summary	Examiner	Art Unit				
		Samuel P Siefke	1743				
Period f	The MAILING DATE of this communication ap for Reply	ppears on the cover sheet with the	correspondence a	ddress			
THE - External control	MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1. or SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period ture to reply within the set or extended period for reply will, by statutor reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to ply within the statutory minimum of thirty (30) da I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDON	imely filed ays will be considered time in the mailing date of this ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on 171	November 2004.					
2a)□	is action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	tion of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>9-23</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrated Claim(s) is/are allowed. Claim(s) <u>9-23</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or expressions.	awn from consideration.					
Applicat	tion Papers						
9)[The specification is objected to by the Examin	er.					
10)[☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	•		` '			
	under 35 U.S.C. § 119						
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureation for a list	nts have been received. Its have been received in Applicatority documents have been received in Rule 17.2(a)).	tion No ved in this Nationa	l Stage			
Attachmer	nt(s)						
1) 🔲 Notic	ce of References Cited (PTO-892)	4) Interview Summar	• •				
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	Paper No(s)/Mail E 5) Notice of Informal 6) Other:		O-152)			

Application/Control Number: 09/887,066

Art Unit: 1743

DETAILED ACTION

In view of the Appeal Brief filed on 11/17/04, PROSECUTION IS HEREBY REOPENED. New 103 rejections are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Application/Control Number: 09/887,066

Art Unit: 1743

Claims **9-23** are rejected under 35 U.S.C. 103(a) as being unpatentable over Issenmann (USPN 5,090,256) in view of Cheney et al. (USPN 5,566,720).

Issenmann teaches a method and apparatus for sampling the gaseous content of a liquid by providing a means for extracting in the gaseous form hydrocarbons contained in a liquid drilling fluid after drilling in a reservoir rock. The method and apparatus are particularly applicable to the sampling of drilling mud from an oil well exploration site for purposes of analyzing the hydrocarbon content of the drilling mud (abstract). Predetermined quantity of liquid is degassed over a certain period of time and the gas released from the predetermined quantity of liquid is drawn off and transported to an analyzing and measuring device (col. 3, lines 2-7). The drilling mud of the oil well is sampled and degassed to obtain and analyze hydrocarbon gases which were occluded in the mud of the oil well. The analyzing and measuring device is conventional, and may be a flame ionization measuring device (col. 3, lines 11-18; col. 4, lines 19-20; col. 5, lines 58-63). The liquid laden with solids is obtained as close as possible to its source to prevent the escape therefrom of gases occluded therein. The arrangement for collecting and delivering the liquid laden with solids to the degassing device 23 comprises a rotary pump 19. The degassing device 23 is a container for receiving the liquid laden with solids. A nozzle 24 is connected to the degassing device 23. A flexible tube 25 is connected to the nozzle for conveying gases released from the liquid inside the container of the degassing device 23 to a collecting tube 26 mounted thereto. The collecting tube 26, in turn, delivers the gases through a tube 27 to an analyzing device (not shown) (col. 5, lines 53-63). All of the gaseous elements

Page 4

contained in the drilling mud are actual light hydrocarbons ranging from methane to normal pentane. These hydrocarbons are extracted at a rates of at least 85 to 90%, whatever the type and density of the drilling mud transporting the hydrocarbons to the surface. This is still true even if the drilling mud has a solvent base, such as gas oil, fuel oil, or crude oil (col. 8, lines 28-35). It is inherent in Issenmann that the tubular line is several ten meters long because in the case of oil exploration the source being the well head, the extracted gas must travel to the analyzing devices (col. 8, lines 9-23).

Issenmann does not teach any information regarding the specific material that is in the transport tubing.

Cheney teaches an elongated fuel and vapor tube having multiple layers suitable for conveying fluids containing hydrocarbons having a first layer disposed radially innermost and having an inner surface capable of prolonged exposure to the hydrocarbon-containing fluid that comprises of a fluoroplastic material being a terpolymeric material containing tetrafluoroethylene, vinylidine difluoride and hexafluoropropylene (abstract, col. 3, lines 37-40; col. 4, lines 18-33), the inner tube being externally protected by at least one other sheath (claim 1). It would have been obvious to one having an ordinary skill in the art at the time to modify Issenmann to include the elongated fuel and vapor tube of Cheney because of the increased retention time of the hydrocarbons in the tubing during the transporting to the analyzer or the measurement means and to limit retention of trace hydrocarbons so that the samples can be analyzed in there purest form when transported from the degassing apparatus.

Application/Control Number: 09/887,066

Art Unit: 1743

Regarding claim 11 and 19, the thickness of the inner tube ranges between 0.1 mm and 0.5 mm. Cheney teaches the inner tubing having a **total wall thickness** of between about 0.5 mm and 2 mm. At its smallest wall thickness 0.5 mm the wall comprises of three layers, an innermost, a secondary sub layer, and a second layer, a total of three layers (claim 14; col. 4, lines 34-46). Therefore at least one of the layers is below 0.5 mm because the total wall thickness is 0.5 mm, the inner layers would have to be smaller than the total thickness. It would have been obvious to one having an ordinary skill in the art to modify Cheney to have a inner tube thickness between 0.5 mm and 0.1 mm because this size of inner tubing would allow limited retention of hydrocarbons.

Regarding claim 12 and 20, the thickness of the inner tube ranges between 0.1 and 0.2 mm. Cheney and Issenmann are silent to this thickness. However, such is considered a result effective variable. It would have been obvious to one having an ordinary skill in the art at the time the invention was made to determine through routine experimentation an optimal thickness of the inner tube thickness that would limit retention of hydrocarbons while still providing sufficient pressure resistance.

Regarding claims 13, 14, 21 and 22, the inside diameter of the inner tube ranges between 3 and 12 mm and preferably between 6 and 10 mm. Cheney and Issenmann are silent to this thickness. However, such is considered a result effective variable. It would have been obvious to one having an ordinary skill in the art at the time the invention was made to determine through routine experimentation an optimal inner tube

Art Unit: 1743

diameter that would provide a reasonable sample size for analysis without interference with the normal operation of an oil well head device.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel P Siefke whose telephone number is 571-272-1262. The examiner can normally be reached on M-F 7:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 571-272-1700. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sam P. Siefke

Technology Center 1700

February 14, 2005